

Customer: **Flomotion**

Application: **Chemical Feed**

Product Used: **SMVector Drive**

### SMVector Pumps Hard-to-Handle Chemicals

Flomotion Systems develops and manufactures unique sealless peristaltic pumps that eliminate loss-of-prime failures in chemical feed applications. Typical markets served include water & wastewater treatment, chemical, food & dairy, pharmaceutical, pulp & paper, energy management, power and irrigation.

A long-time user of **Lenze - AC Tech's MC Series** drives; Flomotion has now incorporated the economical, compact and lightweight **SMVector** drive in the design of their 2001HEC Series pumps.

The Flomotion 2001HEC Series are rugged, reliable and cost effective industrial hose pumps built to succeed in harsh industrial environments. Several features of the **SMVector** make it a perfect fit for the job, including a removable terminal cover; easy access for control and power wiring and the fact that it can handle a wide range of operating temperatures from -10 to 55°C. Last but not least, according to Flomotion, the **SMVector** offers better protection against electrical shock than any other NEMA 1 controller on the market.

Mounting the **SMVector** controller directly to the pump allows Flomotion to optimize precious panel space and offer its customers outstanding convenience. The unique **EPM** or Electronic Programmable Module stores the drive's parameter configuration greatly simplifying initial setup.

Centrifugal and pumping applications especially those moving fluids or a mixture of wet and dry ingredients present a challenge because the speed is affected by the load. Fluid moving applications require 'variable speed' - a drive and motor that can produce the necessary horsepower to move the load at a constant speed. The motor will draw from the drive the amount of current it needs to 'do the job'. The **SMVector** drive works well in this type of application because the speed can be controlled tightly in vector mode (more torque/less speed) or loosely in V/Hz mode to determine just the right amount of speed.



### SMVector Benefits

- Multiple enclosure options available including washdown
- Wide temperature range: -10 to 55°C
- Removable memory (EPM)
- Multiple operational modes (V/Hz, Enhanced V/Hz, Open Loop Vector)
- Lightweight, compact design
- Intuitive programming
- Multiple communication options
- Economical

SMVector

